

WHAT IS CLAIMED IS:

1. A recording medium comprising:
an authentication region having a RAM bit and a ROM bit,
the RAM bit being over-writable of data at least once by a
first writing condition, and the ROM bit being not
over-writable of data by the first condition; and
a data storing region.
2. The recording medium according to claim 1, further
comprising a non-recording region enclosing the RAM bit and
the ROM bit, and the non-recording region being not
over-writable by the first writing condition.
3. A recording-medium management method comprising:
obtaining a first data line from an authentication region
of a recording medium, the authentication region including
a first data pattern of a RAM bit and a ROM bit, the first
data line being corresponding to the first data pattern, the
RAM bit being over-writable of data at least once by a first
writing condition, and the ROM bit being not over-writable
of data by the first writing condition;
overwriting a predetermined data to the RAM bit;
obtaining a second data line from the recording medium,
the second data line being corresponding to a second data
pattern of the over-written RAM bit and the ROM bit, and
decrypting an encrypted data stored in a data storing
region of the recording medium in reference to the first and
second data lines.
4. A recording-medium management method comprising:
obtaining a first data line from an authentication region
of a recording medium, the authentication region including
a first data pattern of a RAM bit and a ROM bit, the first

data line being corresponding to the first data pattern, the RAM bit being over-writable of data at least once by a first writing condition, and the ROM bit being not over-writable of data by the first writing condition;

overwriting a predetermined data to the RAM bit;

obtaining a second data line from the recording medium, the second data line being corresponding to a second data pattern of the over-written RAM bit and the ROM bit, and

judging propriety of an access to a data storing region of the recording-medium in reference to the first and second data lines.

5. A recording-medium management system comprising:

a reproduction part;

a recording part; and

a control part performing

a first control to obtain a first data line from an authentication region of a recording medium by making the reproduction part read the authentication region, the authentication region including a first data pattern of a RAM bit and a ROM bit, the first data line being corresponding to the first data pattern, the RAM bit being over-writable of data at least once by a first writing condition, and the ROM bit being not over-writable of data by the first writing condition;

a second control to make the recording part overwrite predetermined data to the RAM bit;

a third control to obtain a second data line from the recording-medium by making the reproduction part read the authentication region, the second data line being corresponding to a second data pattern of the over-written RAM bit and the ROM bit, and

a fourth control to perform an authentication with regard to the recording medium in reference to the first and second data lines.

6. The recording-medium management system according to claim 5, wherein the authentication is a decryption procedure of an encrypted data stored in the recording medium.

7. The recording-medium management system according to claim 5, wherein the authentication is a judgment of propriety of an access to a data stored in the recording medium.

8. The recording-medium management system according to claim 5, wherein the predetermined data consist of only either one of binary values.

9. The recording-medium management system according to claim 5, wherein the predetermined data has a sequence in which one of binary values and another of binary values appear by turns.

10. The recording-medium management system according to claim 5, wherein

the recording medium has a plurality of the authentication regions, and

the control part performs the first through fourth control in correspond to each of the authentication regions.

11. The recording-medium management system according to claim 10, further comprising a memory to store at least one of the obtained first and second data lines,

the control part performing a fifth control to erase at least one of the first and second data lines stored in the memory.

12. The recording-medium management system according to claim 11, wherein the control part performs the fifth control when reading data region of the recording medium corresponding to the data to be erased is performed by a predetermined times.

13. The recording-medium management system according to claim 11, wherein the control part performs the fifth control when the recording medium is removed from the recording-medium management system.

14. The recording-medium management system according to claim 11, wherein the control part performs the fifth control when a predetermined time passed after the first or second data line is obtained.

15. The recording-medium management system according to claim 11, wherein the control part performs the fifth control when a use of the recording medium is finished.

16. The recording-medium management system according to claim 5, further comprising a memory to store at least one of the obtained first and second data lines,

the control part performing a fifth control to erase at least one of the first and second data lines stored in the memory.

17. The recording-medium management system according to claim 16, wherein the control part performs the fifth control when reading data region of the recording medium corresponding to the data to be erased is performed by a predetermined times.

18. The recording-medium management system according to claim 16, wherein the control part performs the fifth control when the recording medium is removed from the recording-medium management system.

19. The recording-medium management system according to claim 16, wherein the control part performs the fifth control when a predetermined time passed after the first or second data line is obtained.

20. The recording-medium management system according to claim 16, wherein the control part performs the fifth control when a use of the recording medium is finished.

21. The recording-medium management system according to claim 5, wherein the control part performs a sixth control to make the recording part overwrite data to the RAM bit in order that the first data line is obtained when the first control is performed to the recording medium.